



## REMR MATERIAL DATA SHEET CM-SE-1.7

## CONCRETE COATING: 3M XA-5893

## 1. NAME

3M XA-5893

## 2. MANUFACTURER

3M Company  
3M Center  
St. Paul, MN 55101  
Telephone: 612-733-1110

## 3. DESCRIPTION

A one-component, tough elastomeric coating.

## 4. USES

To coat wood and concrete substrates.

## 5. MANUFACTURER'S TECHNICAL DATA

Properties:

Color	Gray
Base polymer	Synthetic elastomer
Consistency	Pourable
Solids	78% weight (min)
Solvents	Aliphatic - 82.5%
	Volume (min)
	Aromatic - 18.5%
	Volume (max)
Weight/gallon	10.0 lb
Flash point (COC)	45° F

Packaging: 3M Brand Coating XA-5893 is packed in 5-gal pails and 55-gal drums.

Handling and storage: XA-5893 should be stored indoors at temperatures

between 60° and 90° F. Higher storage temperatures will reduce shelf life; lower temperatures will cause an increase in the viscosity of the coating and may make the application more difficult. Other than affecting the ease of application, low storage and application temperatures do not affect product performance.

When stored at temperatures below 90° F, XA-5893 has a shelf life of 6 months. This product requires moisture from the air to cure. Premature exposure to moisture will, therefore, shorten the shelf life.

Once opened, the entire container of XA-5893 should be used within 3 to 4 days. Product cures upon exposure to the atmosphere.

Safety precautions: Warning! Flammable! Contains toluene diisocyanate. Keep container tightly closed when not in use. Do not get in eyes or on skin or clothing. Do not breath vapors. Use only with proper ventilation. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 min. For eyes, get medical assistance. Remove and wash all clothing before reuse. Keep product and its vapors away from heat, sparks, and flame. Avoid using spark-producing electrical equipment during application and until vapors are gone.

## 6. MANUFACTURER'S GUIDANCE FOR APPLICATION

XA-5893 is ready for use as received. The material should be mixed prior to

application to ensure uniformity, but dilution with solvent is not required.

Surface preparation: To obtain maximum efficiency, the surface to which the coating is applied must be clean, dry, and free of loose particles, oil, or grease. No priming or special surface preparation is required for adhering to wood.

When coating concrete, it is suggested that the concrete be sandblasted, cleaned, and primed with 3M Brand Scotch Clad Deck Coating Primer 2271 (EC-2271) before applying XA-5893. The primer should be allowed to dry for 30 min minimum before applying the first coat of XA-5893. EC-2271 should not be applied at temperatures below 40° F.

Application: It is recommended that XA-5893 be applied in two coats; a notched squeegee should be used to apply an approximate 30-mil dry initial coat and, after a 24-hr cure, a second 10- to 30-mil coat should be applied by the same method. The finished coating should be allowed to cure 4 to 7 days before subjecting to environmental use.

## 7. CORPS OF ENGINEERS' EVALUATION

### Physical and mechanical properties:

#### Percent solid

(ASTM D 1644, Method A): 78.8%

#### Percent water absorption

(ambient temperature) (ASTM C 642):

1 day	0.06%
2 days	0.11%
4 days	0.16%
7 days	0.20%

Ratio of percent water absorption for treated to nontreated specimen (2-day submersion): 2.34%

### Percent water transmission:

2 days	0.39%
4 days	0.73%
7 days	1.19%

Ratio of percent water transmission for treated to nontreated specimen (7-day diffusion): 33.7%

## 8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of coating activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets should be obtained from the manufacturers of such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.

## 9. AVAILABILITY & COST

Information on the availability and cost of 3M XA-5893 can be obtained by writing the manufacturer at the address given in item 2 or calling 612-733-1110.

## 10. TECHNICAL SERVICE

Information on technical service can be obtained by writing the manufacturer at the address given in item 2 or calling 612-733-1110.